

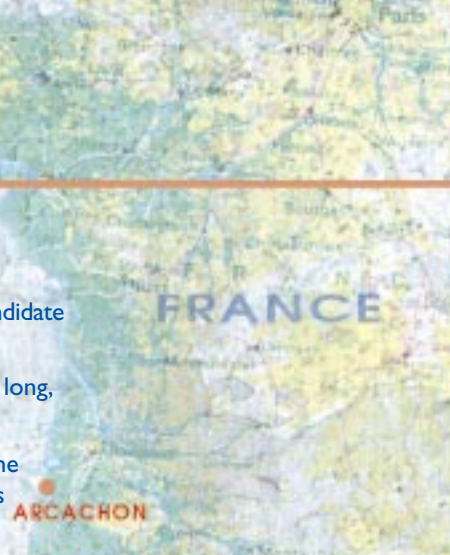
3RD INTERNATIONAL SYMPOSIUM
**ATMOSPHERIC REENTRY
 VEHICLES AND SYSTEMS**

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Following elements should be provided by candidate authors before September 6, 2002.

A detailed abstract between 300-500 words long, including one or more figures and any references.

A short note giving the name and address of prime author, his/her phone number and fax number, as well as E-mail address if available.



3RD INTERNATIONAL SYMPOSIUM
**ATMOSPHERIC REENTRY
 VEHICLES AND SYSTEMS**
 ARCACHON (FRANCE) - 24-27 MARCH 2003

CALL FOR PAPERS



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NOTIFICATION OF ACCEPTANCE / REFUSAL

The Programme Committee will notify all authors of its decision in November 2002. This notification will be accompanied by detailed instructions allowing authors to prepare and send to the Secretariat their presentation for February 2003.

LANGUAGES

Please note that the official language for the symposium will be English. For your presentation during the conference only English may be used and your documents should imperatively be in English.



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French Association for Aeronautics and Astronautics (AAAF) and EADS Launch Vehicles are happy to invite you to participate to the Third International Symposium on Atmospheric Reentry Vehicles and Systems, to be held in Arcachon, France, 24-27th March, 2003.

It was really a pleasure, during the 2 previous symposiums (March 99, March 01), to convene the major specialists and decision makers in this atmospheric reentry community, and to offer the opportunity of outstanding presentations and fruitful exchanges to more than 300 participants.

Many topics were addressed, including systems and technologies for reentry vehicles, low earth orbit vehicles, planetary exploration vehicles, experimental vehicles and demonstrators in preparation of future reusable launch vehicles.

Mitigated programmes evolutions have occurred since our last conference in March 2001.

The ambitious American experimental programs panorama, linked to atmospheric reentry or hypersonic flight, has been modified. Even stopped, X-33 and X-34 programmes have brought an outstanding experience feedback. The promising X-37 is still going on. International Space Station Crew Return Vehicle has entered into an uncertainty period, while X-38 prototype departed from its initial roadmap.

Meanwhile, United States of America have clearly started a Space Launch Initiative that will pave the way for Space Shuttle replacement vehicles.

European Space Agency Future Launchers Technology Programme was kicking off in March 2001. The programme is still under preparation under the heading of Future Launchers Preparatory Programme. A transnational experimental vehicles roadmap in preparation of future launch vehicles has not yet been consolidated, despite industrial proposals (ARES, Pre-X) to go for a new challenge after the Atmospheric Reentry Demonstrator (ARD) successful adventure. Real hopes may be founded on European Experimental Reentry Testbed (EXPERT) initiative to provide industry with a short term and concrete flight vehicle.

At the same time, European countries National Programs are maturing advanced technologies and X-vehicles concepts, and will soon exhibit first results (ASTRA/Phoenix, USV/Prora).

High Speed Flight Demonstrator will hopefully have realized successful flight tests in 2003. Exchanges on Japanese policy for experimental spaceplanes (HOPE-X, Reusable Rocket Powered Experimental Vehicles) will surely be of great interest.

Cooperation with unanimously recognized Russian technological skillness and system knowledge is certainly a path towards innovative developments or new programs.

In the field of interplanetary exploration and reentry systems, an evolution of Mars Sample Return initiative towards Mars Premier reveals the complexity of advanced concepts and technologies such as aerocapture. In 2003, we will be close to Mars Express launch, with the Beagle Lander. The European Space Agency Aurora programme will turn into a reality. We should also remember the Huyghens probe that will approach the Titan suburbs after a 7 years trip.

Some months before next European Ministers Space Conference, March 2003 appears to be an excellent period to bring again specialists, system designers and decision makers together, in order to ease mutual exchanges in the various fields addressed in mastery of Atmospheric Reentry & Return from Orbit.

As in the 2 previous editions, we call for outstanding papers to be included in sessions such as :

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- ✓ lessons learned from previous development and flight experience,
 - ✓ new design and developments for experimental/demonstration vehicles,
 - ✓ reentry and landing concepts for operational systems,
 - ✓ advanced technologies and techniques associated to reentry vehicles
 - ✓ mission analysis, aeroshapes design and characterization, flight qualities, guidance,
 - ✓ navigation, and control,
 - ✓ structures and thermal protection systems, descent techniques, functional chains,
 - ✓ flight operations and ground segments,
 - ✓ development and qualification logic,
 - ✓ cooperation principles.
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Invited papers providing a big picture presentation of past and future programmes will for sure be very appreciated by the audience.

We are looking forward to meeting you again in a sunny Arcachon, March 2003.